



**MAN-003-001642N**

Seat No. \_\_\_\_\_

**B. Sc. (Zoology) (Sem. VI) (CBCS) Examination**

**March / April - 2018**

**Z-602 : Physiology, Histology & Microtechniques**

**Faculty Code : 003**

**Subject Code : 001642**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- Instructions :** (1) Illustrate your answer with neat and labelled diagram.  
(2) Figures to the right side indicate full marks of question.

**1 Write answer of following questions in short : 20**

- (1) What is use of Fixative ?
- (2) What is CO ?
- (3) Define microtomy.
- (4) Addison's disease is caused by which hormone ?
- (5) Left atrium receives blood from \_\_\_\_\_.
- (6) Which anticoagulant present in conversion of prothrombin to thrombin ?
- (7) Hormone of testis.
- (8) \_\_\_\_\_ Immunoglobulin cross the placenta.
- (9) What is blood pressure ?
- (10) Which node is activated during arterial diastole ?
- (11) What is stain ?
- (12) Define antibody.
- (13) \_\_\_\_\_ color developed by hemoglobin in oxygenation state.
- (14) Full form of DPX.
- (15) Write the equation for the chemical reaction that occurs for transport of CO<sub>2</sub> as by carbonate ions in blood.
- (16) How much time taken for the contraction of heart chamber ?
- (17) Write only name of primary taste sensation.
- (18) Function of titin muscle.
- (19) Write the functions of IgE, IgD, IgA.

- (20) Function of Parathyroid hormone.
- 2** (a) Write any **three** out of six : **6**
- (1) Describe endocrine functions of pancreas.
  - (2) Bouin's fluid as a fixative.
  - (3) Importance of alcohol and xylene.
  - (4) Proestrus
  - (5) Iron containing respiratory pigments.
  - (6) Pulse pressure.
- (b) Write any **three** out of six : **9**
- (1) Double stain technique
  - (2) Phono receptor
  - (3) Howel's theory
  - (4) Innate immunity
  - (5) T.S. of mammalian ovary
  - (6) Regulatory protein of muscles
- (c) Write any **two** out of five : **10**
- (1) Describe immunoglobulin.
  - (2) Histological structure and function of pituitary gland.
  - (3) Menstrual cycle.
  - (4) Cardiac cycle.
  - (5) Muscles contraction.
- 3** (a) Write any **three** out of six : **6**
- (1) Antigen.
  - (2) Function of Autorythemic fibre.
  - (3) Explain ECG.
  - (4) Carnoy's fluid.
  - (5) Haematoxylene.
  - (6) Single stain technique.
- (b) Write any **three** out of six : **9**
- (1) Best and Teylor theory.
  - (2) Describe strucure of sperm.
  - (3) Regulation of heart beat.
  - (4) Adaptive immunity.
  - (5) Transportation of CO<sub>2</sub>.
  - (6) Gastroreceptor.
- (c) Write any **two** out of five : **10**
- (1) Photo receptor.
  - (2) Estrus cycle.
  - (3) Histological functions and structure of Adrenal gland.
  - (4) Explain Allergy.
  - (5) Structure of heart.